

Serial No. 10/719,681

Docket No.: 50-12612

Amendment to the Claims:

This listing will replace all prior versions, and listings, of the Claims in this application.

Listing of Claims:

1. (Currently amended) A method for applying a protective coating to a wall of a freezer enclosure comprising the steps of:

applying a screen to the wall, the screen including a plurality of intersecting elements forming a plurality of openings and retained on the wall with a plurality of fasteners;

applying one or more coatings of polyurea to the screen in a sufficient quantity to coat the screen and permeate the plurality of openings through to the wall; and

solidifying the polyurea coating.

2. (Canceled)

3. (Currently amended) The method of Claim 1 wherein the polyurea coating is a mixture consisting of two components a polyamine component and an isocyanate component.

4. (Currently amended) The method of Claim 3 wherein ~~one of the two compositions~~ polyamine component forming the polyurea coating consists essentially of:

between approximately 1% and 40% N,N' dialkylamino-diphenylmethane;

between approximately 1% and 50% diethyltoluenediamine;

between approximately 1% and 30% poly(oxy(methyl-1,2-ethanediyl)), Alpha-(2-aminomethylethyl)-omega-(2-aminomethylethoxy)-; and

between approximately 1% and 20% glyceryl poly(oxypropylene) triamine.

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5. (Currently amended) The method of Claim 3 wherein ~~one of the two compositions~~ isocyanate component forming the polyurea coating consists of ~~comprises:~~

between approximately 30% and 60% diphenylmethane diisocyanate;
between approximately 30% and 60% modified methylenediphenylene isocyanate; and
between approximately 1% and 10% methylenediphenylene isocyanate homopolymer.

6. (Currently amended) The method of Claim 3 further comprising the step of:

mixing the two ~~compositions~~ components under pressure.

7. (Currently amended) The method of Claim 3 further comprising the step of:

applying the two ~~compositions~~ components under pressure.

8. (Previously presented) The method of Claim 1 further comprising the step of:

applying the polyurea coating in ambient temperatures above freezing.

9. (Previously presented) The method of Claim 1 further comprising the step of:

sodablasting the wall prior to application of the polyurea coating.

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10. (Original) A method for sealing a freezer enclosure comprising the steps of:

applying a screen to a wall of the freezer enclosure, the screen including a plurality of intersecting elements forming a plurality of openings and retained on the wall with a plurality of fasteners;

applying a ~~two component~~ polyurea coating consisting of a polyamine component and an isocyanate component to the screen in a sufficient quantity to coat the screen and permeate the plurality of openings; and
curing the polyurea coating.

11. (Original) The method of Claim 10 further comprising the steps of:

mixing the two components of the polyurea coating under pressure;

spraying the two components of the polyurea coating onto the screen.

12. (Original) The method of Claim 10 further comprising the step of:

heating the two components of the polyurea coating prior to mixing.

13. (Original) The method of Claim 10 wherein the polyurea coating is cured with heat.

14. (Original) The method of Claim 10 further comprising the step of:

sanitizing the cured polyurea coating with a controlled steam injection.

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15. (Currently amended) A protective coating for a freezer enclosure having steel walls comprising:

a screen positioned against the walls of the freezer enclosure, the screen having a plurality of intersecting elements forming a plurality of openings;

a plurality of fasteners retaining the screen on the walls;

a cured polyurea coating on the screen and through the plurality of openings of the screen, the cured polyurea coating consisting of including a mixture of Component A and Component B;

wherein Component A consists of an isocyanate component; and

Component B consists essentially of:

N,N' dialkylamino-diphenylmethane;

diethyltoluenediamine;

poly(oxy(methyl-1,2-ethanediyl)), Alpha-(aminomethylethyl)-omega-(2-aminomethylethoxy)-; and

glyceryl poly(oxypropylene) triamine.

16. (Currently amended) The protective coating of Claim 15 wherein Component B consists essentially of:

between about approximately 1% and 40% N,N' dialkylamino-diphenylmethane;

between approximately 1% and 50% diethyltoluenediamine;

between approximately 1% and 30% poly(oxy(methyl-1,2-ethanediyl)), Alpha-(aminomethylethyl)-omega-(2-aminomethylethoxy)-; and

between approximately 1% and 20% glyceryl poly(oxypropylene) triamine; and

Component A consists of includes:

between approximately 30% and 60% diphenylmethane diisocyanate;

between approximately 30% and 60% modified methylenediphenylene isocyanate; and

between approximately 1% and 10% methylenediphenylene isocyanate homopolymer.

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17. (Canceled)

18. (Previously presented) The protective coating of Claim 15 wherein the screen comprises a wire mesh.

19. (Previously presented) The protective coating of Claim 15 wherein the screen comprises one of a composite and a metal netting.

20. (Currently amended) A refrigeration device comprising:
a plurality of walls;
a screen positioned over at least one of the walls, the screen including a plurality of intersecting elements forming a plurality of openings and retained on the at least one wall with a plurality of fasteners; and
a polyurea coating contacting the screen, and contracting the wall through the openings in the screen, the polyurea coating consisting of including a mixture of a polyamine component and an isocyanate component ~~two components~~.

21. (Currently amended) The protective coating of Claim 15 wherein Component B consists ~~essentially~~ of:
about 5% N,N' dialkylamino-diphenylmethane;
about 23% diethyltoluenediamine;
about 64% poly(oxy(methyl-1,2-ethanediyl)), Alpha-(aminomethylethyl)-omega-(2-aminomethylethoxy)-; and
about 8% glyceryl poly(oxypropylene) triamine.

22. (Currently amended) The protective coating of Claim 15 wherein Component B consists ~~essentially~~ of:
about 3% N,N' dialkylamino-diphenylmethane;
about 23% diethyltoluenediamine;
about 66% poly(oxy(methyl-1,2-ethanediyl)), Alpha-(aminomethylethyl)-omega-(2-aminomethylethoxy)-; and
about 8% glyceryl poly(oxypropylene) triamine.

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